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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/782,593	02/12/2001	Marc VanHeyningen	05313.00001	9483
7590	04/22/2005		EXAMINER	
Banner & Witcoff, Ltd. 1001 G Street, N.W. Washington, DC 20001-4597			SON, LINH L D	
			ART UNIT	PAPER NUMBER
			2135	
DATE MAILED: 04/22/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/782,593	VANHEYNINGEN, MARC	
	<b>Examiner</b>	<b>Art Unit</b>	
	Linh Son	2135	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 17 June 2004.  
 2a) This action is **FINAL**.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-48 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-48 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 09 May 2001 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 01/21/05.

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_.

**DETAILED ACTION**

1. This written action is responding to the amendment filed on March 29, 2005.
2. Claim 4 is canceled. Claims 23-48 are newly added.
3. Claims 1-3 and 5-48 are pending.

***Drawings***

4. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the submitted drawings are informal. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

5. The informal drawings are not of sufficient quality to permit examination. Accordingly, replacement drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to this Office action. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-10, and 12-43, and 45-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito et al, US Patent No 6125186, hereinafter "Saito".

8. As per claims 1, Saito teaches "A method of transmitting data securely over a computer network, comprising the steps of: (1) establishing a communication path between a first computer and a second computer" in (Col 5 lines 25-38); "(2) encrypting and transmitting data records between the first computer and the second computer using a reliable communication protocol, wherein each data record is encrypted by incorporating a nonce and without reference to a previously transmitted data record" in (Col 5 lines 13-20); and "(3) in the second computer, receiving and decrypting the data records transmitted in step (2) by using the nonce in combination with a previously shared encryption key to decrypt each of the data records without reference to a previously received data record" in (Col 4 lines 50-54, and Col 5 lines 13-20). However, Saito does not specifically use the unreliable communication protocol to transmit the data. Nevertheless, Saito does mention of encrypting the data and stores in a UDP packet and then transfer (Col 5 lines 65-67, and Col 11 lines 45-60). Therefore, it would

have been obvious at the time of the invention was made for one having ordinary skill in the art to realize that the unreliable communication protocol is also considered in Saito's invention to transmit encrypted data.

9. As per claims 2, 17, 24, and 31, Saito teaches "Saito teaches "The method of claims 1, 16, 23, and 30, further comprising the step of, prior to step (1), establishing a reliable communication path between the first computer and the second computer and exchanging security credentials over the reliable communication path" in (Col 4 lines 37-54).

10. As per claims 3, 25, and 32, Saito teaches "The method of claim 2, wherein the step of exchanging security credentials comprises the step of exchanging an encryption key that is used to encrypt the data records in step (2)" in (Col 4 lines 50-54).

11. As per claims 5, 26, 33, 39, and 45, Saito teaches "The method of claims 1, 23, 30, 38, and 43, [4], wherein the nonce comprises a random number" in (Col 5 lines 9-12).

12. As per claims 6 and 34, Saito teaches "The method of claims 1 and 30 [4], further comprising the step of, in the second computer, verifying that the nonce has not previously been- received in a previously transmitted data record" in (Col 12 lines 35-44).

13. As per claims 7, 22, 27, and 35, Saito teaches “The method of claims 1, 16, 23, and 30, wherein step (2) comprises the step of embedding an indicator in each of the encrypted data records indicating that the encrypted data records are encrypted according to an encryption scheme that encrypts records without regard to any previously transmitted data records, and wherein step (3) comprises the step of determining whether the indicator is present in each received record and, in response to determining that the indicator is not present, processing each such record differently than if the indicator is set” in (Col 10 lines 30-41, Col 11 lines 30-40, and Col 12 lines 35-44).

14. As per claims 8, 13-15, 18, 40, 42, 46, and 48, The system of claims 17, 10, 14, 17, 38, 41, 43, and 47, wherein the unreliable communication protocol comprises the User Datagram Protocol” in (Col 5 lines 45-60), and “wherein the reliable communication protocol comprises the Transmission Control Protocol” in (Col 5 lines 42-45).

15. As per claims 9, 21, 29, and 37, Saito teaches “The system of claims 1,16, 23, and 30, wherein the second computer comprises a proxy server” in (Col 17 lines 10-25). However, Saito is silent on the second computer forwards decrypted records received from the first computer to another server computer (See Figure 1). Nevertheless, Saito does teach of another embodiment of having the information processing unit receives

the decrypted data. Therefore, it is obvious at the time of the invention was made for one having ordinary skill in the art to realize that the feature above is fully considered to be able to operate in multi-processor environment (Col 17 lines 20-25).

16. As per claims 10, 16, 23, 30, and 38, Saito teaches “A method of securely transmitting a plurality of data records to a remote computer using an unreliable communication protocol, comprising: (1) establishing a reliable connection with the remote computer” in (Col 5 lines 25-38); “(2) exchanging encryption credentials with the remote computer over the reliable connection” in (Col 4 lines 37-54); “(3) generating a nonce for each of a plurality of data records, wherein each nonce comprises an initialization vector” in (Col 5 lines 10-120); “(4) using the nonce to encrypt each of the plurality of data records and appending the nonce to each of the plurality of data records” in (Col 5 lines 13-20); “(5) transmitting the plurality of data records encrypted in step (4) to the remote computer using an unreliable communication protocol, such that the remote computer can decrypt each of the plurality of encrypted data records using a corresponding nonce extracted from each encrypted data record and a previously shared encryption key” in (Col 4 lines 50-54, Col 5 lines 13-20, and Col 11 lines 45-60).

17. As per claims 14, 41, and 47. Saito teaches “The method of claims 10, 38 and 43, wherein step (6) is performed using an-encryption key previously shared using a reliable communication protocol” in (Col 4 lines 50-54).

18. As per claim 19, Saito teaches “The system of claim 16, wherein the communication protocol client function and the communication protocol server function are compatible with the SOCKS communication protocol” in (Col 17 lines 10-25 and Col 18 lines 20-30).

19. As per claim 20, Saito teaches “The system of claim 16, wherein the communication protocol client function and the communication protocol server function are compatible with the SSL/TLS communication protocol” in (Col 17 lines 27-34, and Col 17 line 65 to Col 18 line 57).

20. As per claims 28 and 36, Saito teaches “The method of claims 23 and 30, wherein establishing the communication path with the remote computer is performed using the Transmission Control Protocol” in (Col 5 lines 40-49), and “encrypting the data records is performed using the User Datagram Protocol” in (Col 11 lines 45-67).

21. Claims 11 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito in view of Lee et al, US Publication No. 2002/0101848A1, hereinafter “Lee”.

22. As per claims 11 and 44, Saito teaches “The method of claims 10 and 43, wherein step (6) comprises the step of checking to determine whether each data record received from the client computer is formatted according to a secure unreliable transmission format” in (Col 17 lines 10-25, and Col 11 lines 45-61). However, Saito

does not teach the determination if a particular record is not formatted according to a secure unreliable transmission format, bypassing the decryption using the corresponding nonce. Saito does encrypt/decrypt all data regardless of transmission path or port using the corresponding nonce. Nevertheless, Lee discloses a "Systems and Methods for On-location, wireless access of web content" invention, which includes an encoder/decoder at the gateway or proxy server (Figure 7B), which process the packet according to the preset rules (Para 0067-71). Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify the invention to include the rule-based encoder/decoder to process the incoming data accordingly and also can reduce the unnecessary computation process.

***Response to Amendment***

23. The Declaration Under 37 C.F.R. §1.131 filed on March 02, 2005 under 37 CFR 1.131 is sufficient to overcome the U.S. Publication No. 2002/0094085A1 reference.

**Conclusion**

24. *Examiner would like to express his regret in regards to the truly honest mistake made on to the Applicant's patent application. Examiner hopes to restart the relationship with the applicant by providing a complete diligent examination during the life of the application to fully satisfy the applicant.*

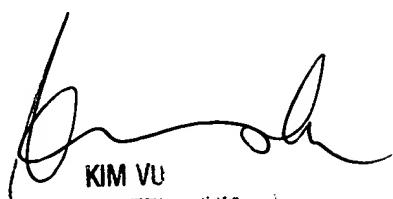
25. Any inquiry concerning this communication from the examiner should be directed to Linh Son whose telephone number is (571)-271-3856.

26. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Kim Y. Vu can be reached at (571)-272-3859. The fax numbers for this group are (703)-872-9306 (official fax). Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2100.

27. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval PAIR system. Status information for published applications may be obtained from either Private PMR or Public PMR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR system, see <http://pdr-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linh LD Son

Patent Examiner



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